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Collapse of Keldysh chains and stability of nonconservative systems. (Russian)


The authors study the eigenvalues of nonselfadjoint linear differential operators which smoothly depend on a vector of real parameters. They present formulas for bifurcations of multiple eigenvalues with Keldysh chains of arbitrary length along smooth curves in the space of parameters. Stability conditions for distributed circulation systems are analyzed.

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Keywords: Keldysh chains; eigenvalues; bifurcations; stability; Lagrange formula

Classification:

- 47A75 Eigenvalue problems (linear operators)
- 49R50 Variational methods for eigenvalues of operators
- 47A05 General theory of linear operators

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